

CLAIMS

1. Process for assembly of metallic parts by melting a filler material, characterized in that it
5 consists of:

- heating the assembly by induction heating;
- using a powder as a filler material which has a melting temperature higher than or equal to the melting temperature of the material from which the parts to be
10 assembled is made for parts with the same nature, and with a melting temperature higher than or equal to the melting temperature of the part with the lowest melting temperature, in order to make the assembly without a new phase being formed by diffusion with a melting
15 temperature lower than the melting temperature of the parts.

2. Assembly process according to claim 1, characterized in that the material from which the parts
20 are made and the material from which the powder is made are the same.

3. Assembly process according to claim 1, characterized in that the powder is compacted before it
25 is inserted between the two metallic parts.